

SAFETY DATA SHEET

212507-001 NowoMetal Special Primer SB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

□ Trade name

212507-001 Nowo Metal Special Primer SB grå

□ Unique formula identifier (UFI)

FRHM-W6M3-CWSN-2VM7

1.2. Relevant identified uses of the substance or mixture and uses advised against

□ Relevant identified uses of the substance or mixture

Primer

Restricted to professional users.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

NOWOCOAT INDUSTRIAL A/S

Stålvvej 3

6000 Kolding

Denmark

Tel: +45 7550 1111

E-mail

mail@nowocoat.dk

Revision

05/01/2024

SDS Version

3.0

Date of previous version

31/01/2023 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. □ Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

STOT SE 3; H336, May cause drowsiness or dizziness.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

□ Hazard pictogram(s)



□ Signal word

Danger

□ Hazard statement(s)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Flammable liquid and vapour. (H226)
May be fatal if swallowed and enters airways. (H304)
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
May cause drowsiness or dizziness. (H336)
May cause damage to organs through prolonged or repeated exposure. (H373)
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

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Prevention

Do not breathe vapour/mist. (P260)
Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
Get medical advice/attention if you feel unwell. (P314)

Storage

Store in a well-ventilated place. Keep cool. (P403+P235)

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

n-Butyl acetate
1-Methoxypropan-2-ol
Reaction mass of ethylbenzene and xylene
Reaction product: bisphenol-A(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride

Additional labelling

EUH211, Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
UFI: FRHM-W6M3-CWSN-2VM7

VOC

VOC content: < 710 g/L
MAXIMUM VOC CONTENT (Phase II, category A/h (SB): 750 g/L)

2.3. Other hazards

Additional warnings

Contains epoxy constituents. May produce an allergic reaction.
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
n-Butyl acetate	CAS No.: 123-86-4 EC No.: 204-658-1 UK-REACH: Index No.: 607-025-00-1	25-40%	EUH066 Flam. Liq. 3, H226 STOT SE 3, H336	[1]
1-Methoxypropan-2-ol	CAS No.: 107-98-2 EC No.: 203-539-1 UK-REACH: Index No.: 603-064-00-3	15-25%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Reaction mass of ethylbenzene and xylene	CAS No.: EC No.: 905-588-0	15-25%	Flam. Liq. 3, H226 Asp. Tox. 1, H304	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

	UK-REACH: Index No.:		Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373	
Titanium dioxide	CAS No.: 13463-67-7 EC No.: 236-675-5 UK-REACH: Index No.:	5-10%		
Reaction product: bisphenol-A-(epichlorohydrine) epoxy resin (number average molecular weight $\geq$ 700)	CAS No.: 25068-38-6 EC No.: 500-033-5 UK-REACH: Index No.: 603-074-00-8	1-3%	Skin Irrit. 2, H315 (SCL: 5.00 %) Skin Sens. 1, H317 Eye Irrit. 2, H319 (SCL: 5.00 %) Aquatic Chronic 2, H411	
Xylene	CAS No.: 1330-20-7 EC No.: 215-535-7 UK-REACH: Index No.: 601-022-00-9	1-3%	Flam. Liq. 3, H226 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332	[1]
Phosphoric acid	CAS No.: 7664-38-2 EC No.: 231-633-2 UK-REACH: Index No.: 015-011-00-6	<1%	Skin Corr. 1B, H314 (SCL: 25.00 %)	[1]
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	CAS No.: EC No.: UK-REACH: Index No.:	<1%	Skin Sens. 1B, H317	
2-Methoxy-1-methylethyl acetate	CAS No.: 108-65-6 EC No.: 203-603-9 UK-REACH: Index No.: 607-195-00-7	<0.01%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Ethylbenzene	CAS No.: 100-41-4 EC No.: 202-849-4 UK-REACH: Index No.: 601-023-00-4	<0.0015%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

□Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

□Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

4.2. □Most important symptoms and effects, both acute and delayed

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. □Special hazards arising from the substance or mixture

Flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂)

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local

environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. ⚠Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. ⚠Control parameters

n-Butyl acetate

Long term exposure limit (8 hours) (ppm): 150

Long term exposure limit (8 hours) (mg/m³): 724

Short term exposure limit (15 minutes) (ppm): 200

Short term exposure limit (15 minutes) (mg/m³): 966

1-Methoxypropan-2-ol

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m³): 375

Short term exposure limit (15 minutes) (ppm): 150

Short term exposure limit (15 minutes) (mg/m³): 560

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

Titanium dioxide

Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

Talc (Mg₃H₂(SiO₃)₄)

Long term exposure limit (8 hours) (mg/m³): 1

Xylene

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m³): 220

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Short term exposure limit (15 minutes) (ppm): 100
 Short term exposure limit (15 minutes) (mg/m³): 441
 Annotations:
 BMVG = Biological Monitoring Guidance Value exists
 Sk = Can be absorbed through the skin and lead to systemic toxicity.

Phosphoric acid
 Long term exposure limit (8 hours) (mg/m³): 1
 Short term exposure limit (15 minutes) (mg/m³): 2

Magnesium carbonate
 Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

2-Methoxy-1-methylethyl acetate
 Long term exposure limit (8 hours) (ppm): 50
 Long term exposure limit (8 hours) (mg/m³): 274
 Short term exposure limit (15 minutes) (ppm): 100
 Short term exposure limit (15 minutes) (mg/m³): 548
 Annotations:
 Sk = Can be absorbed through the skin and lead to systemic toxicity.

Ethylbenzene
 Long term exposure limit (8 hours) (ppm): 100
 Long term exposure limit (8 hours) (mg/m³): 441
 Short term exposure limit (15 minutes) (ppm): 125
 Short term exposure limit (15 minutes) (mg/m³): 552
 Annotations:
 Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
 EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1-Methoxypropan-2-ol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	78 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	183 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	43.9 mg/m ³
Long term – Systemic effects - Workers	Inhalation	369 mg/m ³
Short term – Local effects - Workers	Inhalation	553.5 mg/m ³
Short term – Systemic effects - Workers	Inhalation	553.5 mg/m ³
Long term – Systemic effects - General population	Oral	33 mg/kg bw/day

2-Methoxy-1-methylethyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	320 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	796 mg/kg bw/day
Long term – Local effects - General population	Inhalation	33 mg/m ³
Long term – Systemic effects - General population	Inhalation	33 mg/m ³
Long term – Systemic effects - Workers	Inhalation	275 mg/m ³
Short term – Local effects - Workers	Inhalation	550 mg/m ³
Long term – Systemic effects - General population	Oral	36 mg/kg bw/day
Short term – Systemic effects - General population	Oral	500 mg/kg bw/day

Ethylbenzene

Duration:	Route of exposure:	DNEL:
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Systemic effects - Workers	Dermal	180 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	15 mg/m ³
Long term – Systemic effects - Workers	Inhalation	77 mg/m ³
Short term – Local effects - Workers	Inhalation	293 mg/m ³
Long term – Systemic effects - General population	Oral	1.6 mg/kg bw/day
n-Butyl acetate		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	6 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	6 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Local effects - General population	Inhalation	35.7 mg/m ³
Long term – Local effects - Workers	Inhalation	300 mg/m ³
Long term – Systemic effects - General population	Inhalation	35.7 mg/m ³
Long term – Systemic effects - Workers	Inhalation	300 mg/m ³
Short term – Local effects - General population	Inhalation	300 mg/m ³
Short term – Local effects - Workers	Inhalation	600 mg/m ³
Short term – Systemic effects - General population	Inhalation	300 mg/m ³
Short term – Systemic effects - Workers	Inhalation	600 mg/m ³
Long term – Systemic effects - General population	Oral	2 mg/kg bw/day
Short term – Systemic effects - General population	Oral	2 mg/kg bw/day
Phosphoric acid		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	360 µg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³
Long term – Systemic effects - General population	Inhalation	4.57 mg/m ³
Long term – Systemic effects - Workers	Inhalation	10.7 mg/m ³
Long term – Systemic effects - General population	Oral	100 µg/kg bw/day
Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≥ 700)		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.571 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	8.33 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	3.571 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	8.33 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	12.25 mg/m ³
Short term – Systemic effects - Workers	Inhalation	12.25 mg/m ³
Long term – Systemic effects - General population	Oral	750 µg/kg bw/day
Short term – Systemic effects - General population	Oral	750 µg/kg bw/day
Talc (Mg₃H₂(SiO₃)₄)		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	2.27 mg/cm ²
Long term – Local effects - Workers	Dermal	4.54 mg/cm ²
Long term – Systemic effects - General population	Dermal	21.6 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	43.2 mg/kg bw/day
Long term – Local effects - General population	Inhalation	1.8 mg/m ³

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Local effects - Workers	Inhalation	3.6 mg/m ³
Long term – Systemic effects - General population	Inhalation	1.08 mg/m ³
Long term – Systemic effects - Workers	Inhalation	2.16 mg/m ³
Short term – Local effects - General population	Inhalation	1.8 mg/m ³
Short term – Local effects - Workers	Inhalation	3.6 mg/m ³
Short term – Systemic effects - General population	Inhalation	1.08 mg/m ³
Short term – Systemic effects - Workers	Inhalation	2.16 mg/m ³
Long term – Systemic effects - General population	Oral	160 mg/kg bw/day
Titanium dioxide		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	10 mg/m ³
Long term – Systemic effects - General population	Oral	700 mg/kg bw/day
Xylene		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	125 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	212 mg/kg bw/day
Long term – Local effects - General population	Inhalation	65,3 mg/m ³
Long term – Local effects - Workers	Inhalation	221 mg/m ³
Long term – Systemic effects - General population	Inhalation	65,3 mg/m ³
Long term – Systemic effects - Workers	Inhalation	221 mg/m ³
Short term – Local effects - General population	Inhalation	260 mg/m ³
Short term – Local effects - Workers	Inhalation	442 mg/m ³
Short term – Systemic effects - General population	Inhalation	260 mg/m ³
Short term – Systemic effects - Workers	Inhalation	442 mg/m ³
Long term – Systemic effects - General population	Oral	12,5 mg/kg bw/day
PNEC		
1-Methoxypropan-2-ol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	10 mg/L
Intermittent release	Continuous	100 mg/L
Marine water	Single	1 mg/L
Soil	Single	4.59 mg/kg soil dw
2-Methoxy-1-methylethyl acetate		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	0,635 mg/l
Intermittent release	Continuous	6,35 mg/l
Marine water	Single	0,064 mg/l
Soil	Single	0.29 mg/kg soil dw
Ethylbenzene		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	100 µg/L
Intermittent release	Continuous	100 µg/L
Marine water	Single	10-100 µg/L
Soil	Single	2.68 mg/kg soil dw
n-Butyl acetate		

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	0.18 mg/L
Intermittent release	Continuous	0.36 mg/L
Marine water	Single	0.018 mg/L
Soil	Single	0.09 mg/kg soil dw
Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	6 μ g/L
Intermittent release	Continuous	18 μ g/L
Marine water	Single	600 ng/L
Soil	Single	196 μ g/kg soil dw
Talc ($Mg_3H_2(SiO_3)_4$)		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	597.97 mg/L
Intermittent release	Continuous	141.26 mg/L - 597.97 mg/L
Marine water	Single	141.26 mg/L
Titanium dioxide		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	184 μ g/L
Intermittent release	Continuous	193 μ g/L
Marine water	Single	18.4 μ g/L
Soil	Single	100 mg/kg soil dw
Xylene		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater	Single	0.327 mg/L
Intermittent release	Continuous	0.327 mg/L
Marine water	Single	0.327 mg/L
Soil	Single	2.31 mg/kg soil dw

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Respiratory Equipment

Type	Class	Colour	Standards
A	Class 2 (medium capacity)	Brown	EN14387



Skin protection

Recommended	Type/Category	Standards
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Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

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Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Butyl	0,3	> 480	EN374-2, EN374-3, EN388



Eye protection

Type	Standards
Safety glasses	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Gray

Odour / Odour threshold

Testing not relevant or not possible due to the nature of the product.

pH

Not applicable - water solubility < 1 mg/L @ 20°C

Density (g/cm³)

1,02-1,06

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

25-27

Flammability (°C)

The material is ignitable.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

VOC (g/L)

< 710

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	n-Butyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	12789 mg/kg

Product/substance	n-Butyl acetate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	14112 mg/kg

Product/substance	1-Methoxypropan-2-ol
Species:	Rat
Route of exposure:	Oral
Test:	LD50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result:	3739 mg/kgbw
Product/substance	1-Methoxypropan-2-ol
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kgbw
Product/substance	1-Methoxypropan-2-ol
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 6000 ppm
Product/substance	Titanium dioxide
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5000 mg/kgbw
Product/substance	Titanium dioxide
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	3.43 - 6.82 (4 h) mg/L
Product/substance	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 5000 mg/kgbw
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2000 mg/kg bw
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 20 mL/kg bw
Product/substance	Xylene
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3523 mg/kgbw
Product/substance	2-Methoxy-1-methylethyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	8532 mg/kgbw
Product/substance	2-Methoxy-1-methylethyl acetate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 5000 mg/kgbw
Product/substance	Ethylbenzene
Species:	Rat
Route of exposure:	Oral

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test:	LD50
Result:	3500 mg/kg bw ·

Product/substance	Ethylbenzene
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	17,8 mL/kg bw ·

Skin corrosion/irritation

Causes skin irritation.

☐ Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

☐ STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

☐ Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

☐ Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

☐ Other information

Titanium dioxide has been classified by IARC as a group 2B carcinogen.

Talc ($Mg_3H_2(SiO_3)_4$) has been classified by IARC as a group 3 carcinogen.

Xylene has been classified by IARC as a group 3 carcinogen.

Ethylbenzene has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. ☐ Toxicity

Product/substance	n-Butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	18 mg/L

Product/substance	n-Butyl acetate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	44 mg/L

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	1-Methoxypropan-2-ol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	> 4600 - 10000 mg/L
Product/substance	1-Methoxypropan-2-ol
Species:	Daphnia
Duration:	48 hours
Test:	LC50
Result:	21.1 - 25.9 g/L
Product/substance	1-Methoxypropan-2-ol
Species:	Algae
Duration:	7 days
Test:	EC50
Result:	> 1000 mg/L
Product/substance	Titanium dioxide
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	155 - 294 mg/L
Product/substance	Titanium dioxide
Species:	Daphnia
Duration:	48 hours
Test:	LC50
Result:	500 mg/L
Product/substance	Titanium dioxide
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	100 mg/L
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1.2 - 3.6 mg/L ·
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	1.1 - 2.8 mg/L ·
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	9.4 - 11 mg/L ·
Product/substance	Xylene
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	2.6 mg/L
Product/substance	Xylene
Species:	Algae
Duration:	72 hours
Test:	EC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result:	1.3 mg/L
Product/substance	Phosphoric acid
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	100 mg/L ·
Product/substance	Phosphoric acid
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	100 mg/L ·
Product/substance	2-Methoxy-1-methylethyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	100 - 180 mg/L
Product/substance	2-Methoxy-1-methylethyl acetate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	> 500 mg/L
Product/substance	2-Methoxy-1-methylethyl acetate
Species:	Algae
Duration:	21 days
Test:	EC50
Result:	> 100 mg/L
Product/substance	Ethylbenzene
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	4.2 - 5.1 mg/L ·
Product/substance	Ethylbenzene
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	1.8 - 2.4 mg/L ·
Product/substance	Ethylbenzene
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	4.9 - 5.4 mg/L ·
Harmful to aquatic life with long lasting effects.	
12.2. Persistence and degradability	
Product/substance	n-Butyl acetate
Biodegradable:	Yes
Test method:	OECD 301 D
Result:	83 %
Product/substance	1-Methoxypropan-2-ol
Biodegradable:	Yes
Test method:	OECD 301 E
Result:	96 %
Product/substance	Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight ≥ 700)
Biodegradable:	Yes
Test method:	OECD 301 F

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: 82 %

Product/substance: Xylene
Biodegradable: Yes
Test method: OECD 301 F
Result: >90 %

Product/substance: 2-Methoxy-1-methylethyl acetate
Biodegradable: Yes
Test method: OECD 301 F
Result: 99 %

Product/substance: Ethylbenzene
Biodegradable: Yes
Test method: OECD 301 E
Result: 79 %

12.3. Bioaccumulative potential

Product/substance: n-Butyl acetate
Potential bioaccumulation: No
LogKow: 2,3000
BCF: No data available.

Product/substance: 1-Methoxypropan-2-ol
Potential bioaccumulation: No
LogKow: < 1,0000
BCF: No data available.

Product/substance: Reaction product: bisphenol-A-(epichlorhydrine) epoxy resin (number average molecular weight $\approx$ 700)
Potential bioaccumulation: Yes
LogKow: 3,7800
BCF: No data available.

Product/substance: Xylene
Potential bioaccumulation: Yes
LogKow: 3,6
BCF: No data available.

Product/substance: 2-Methoxy-1-methylethyl acetate
Potential bioaccumulation: No
LogKow: 1,2
BCF: No data available.

Product/substance: Ethylbenzene
Potential bioaccumulation: Yes
LogKow: 3,6000
BCF: 1

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product is covered by the regulations on hazardous waste. (*)

HP 3 - Flammable

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

[EWC code](#)

08 01 11*

Waste paint and varnish containing organic solvents or other dangerous substances

[Contaminated packing](#)

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L EmS: F-E S-E See below for additional information.
IATA	UN1263	PAINT RELATED MATERIAL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	See below for additional information.

* Packing group

** Environmental hazards

[Additional information](#)

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

[14.6. Special precautions for user](#)

Not applicable.

[14.7. Maritime transport in bulk according to IMO instruments](#)

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

REACH, Annex XVII

n-Butyl acetate is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

1-Methoxypropan-2-ol is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

Reaction mass of ethylbenzene and xylene is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

Xylene is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

2-Methoxy-1-methylethyl acetate is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

Ethylbenzene is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

Additional information

Not applicable.

Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

, EUH066, Repeated exposure may cause skin dryness or cracking.

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H336, May cause drowsiness or dizziness.

H373, May cause damage to organs through prolonged or repeated exposure.

H411, Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the mixture in regard to physical hazards has been based on experimental data.

☐ The safety data sheet is validated by

AS

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en